# United States Patent [19]

**Schroder et al.**

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[54] **INK FILM DISPENSING SYSTEM FOR A PRINTING PRESS**


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[30] **Foreign Application Priority Data**

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[51] **Int. Cl.**[3] ..... **B41F 31/04**; B41F 31/06; B41L 27/06

[52] **U.S. Cl.** ..... **101/365**

[58] **Field of Search** ..... 101/365, 366, 350, 206, 101/207, 208



[56] **References Cited**

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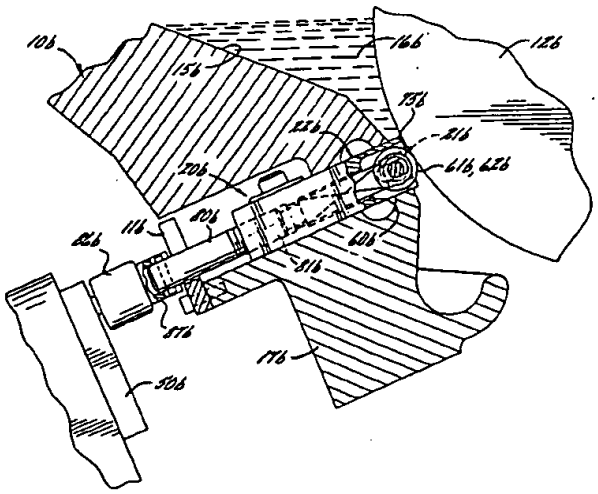
[57] **ABSTRACT**

An ink dispensing system for a printing press having an ink trough of a fountain roller and comprising a plurality of radially oriented ink spreader assemblies arranged closely side-by-side to form a substantially continuous metering edge for zonal metering of a film of ink on the fountain roller as it rotates. Each printer assembly includes a bearing member and a dispensing member, the bearing member having a tip of narrow dimension and the dispensing member having a film-forming edge. Each bearing member is biased so that its tip rides in contact with the surface of the roller to establish a positional reference for adjustment of the dispensing member. An adjusting screw mounted on the bearing member and engaging the dispensing member is adapted to retract the dispensing member a small distance rearwardly of the tip of the bearing member to thereby determine the zonal thickness of the ink film formed on the surface of the roller by the dispensing member.


**14 Claims, 11 Drawing Figures**



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TITLE: Ink film dispensing system for a printing press

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Since different zones, or column positions, along the width of a printed page
often require the delivery, to the respective portions of the printed page, of
widely different amounts of ink, the ink fountains of conventional printing
presses are divided zonally with separate adjustment of the thickness of ink
fed at each zone. However even where the zone adjustment is carefully made the
distance between the ink spreader, or dispensing element, and the fountain
roller is subject to changes in conditions occurring in the press room as, for
example, temperature changes. Moreover, the fountain roller may have a certain
degree of eccentricity causing a change in thickness of the dispensed film to
occur cyclically as the roller rotates.